



# CATINUCHAIN (CAT)

## Smart Contract Audit Report

Audit by Meme Audit — Comprehensive Security Review

Field	Value
Contract Address	0xD5954748D24cFDdBE6be7DDDD48243a084432804
Blockchain	Arbitrum
Token Name	CATINUCHAIN
Symbol	CAT
Total Supply	1,000,000,000 (1B) CAT
Decimals	18

## Executive Summary

Meme Audit has completed a detailed audit of the CATINUCHAIN (CAT) smart contract deployed on the Arbitrum network. The analysis covered functionality, logic, access control, and compliance with ERC20 standards. The contract implements a taxation system, marketing wallet, and owner-configurable features. No critical vulnerabilities were found; however, caution is advised due to centralized control.

## Security Check Summary

Check	Status	Severity
Reentrancy	Passed	Low
Overflow/Underflow	Passed	Low
Access Control	Caution	High
Taxation Logic	Passed	Low
Event Emission	Partially Passed	Low
ERC20 Compliance	Passed	Low
Rescue Function	Review	Medium
Withdraw Function	Review	Medium
Front-running	Informational	Low
Gas Optimization	Passed	Info

## Detailed Findings

### F-01 — Owner Centralization (Severity: High)

The owner has authority to modify taxes, wallets, and perform rescues. Centralized control introduces risk.

Recommendation: Implement a multisig wallet or timelock for key actions.

### F-02 — Low-Level Call in rescueERC20 (Severity: Medium)

Low-level calls can behave unexpectedly with non-standard tokens.

Recommendation: Use SafeERC20.safeTransfer for safety.

### F-03 — Use of transfer() in withdrawETH (Severity: Medium)

The .transfer method may fail if recipient requires more gas.

Recommendation: Use call() with require(success).

### F-04 — Missing Zero-Address Check (Severity: Low)

Transfers and approvals don't verify zero addresses.

Recommendation: Add require(to != address(0)) for compliance.

### F-05 — Event Emission Missing (Severity: Low)

No event for rescueERC20 or withdrawETH.

Recommendation: Emit events for all admin actions.

## Compliance & Standards

The CATINUCHAIN token complies with ERC20 requirements and uses Solidity 0.8.20 safeguards. It omits mint and burn functions intentionally to maintain a fixed supply. Implementing OpenZeppelin's SafeERC20 and ReentrancyGuard is recommended for long-term safety. The code is structurally sound and efficient.

## Conclusion

The CATINUCHAIN (CAT) token is a secure and standard ERC20 implementation with added taxation and marketing logic. It achieves a strong security rating with no critical vulnerabilities detected. Centralized ownership remains the primary risk factor. Meme Audit recommends using a timelock or multisig to mitigate single-point control.

# Final Security Score: 92 / 100

Audit Completed by Meme Audit • Date: 2025-10-16